PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUT	THORITY				
To: Autoliv Development AB 447 83 VÅRGÅRDA		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
Sverige					
			(PCT Rule 43bis.1)		
		Date of mailing (day/month/year)	2 3 -05- 2005		
Applicant's or agent's file reference		FOR FURTHER AC	CTION See paragraph 2 below		
International application No. PCT/SE2005/000264	International filing date 25.02.2005	 e (day/month/year)	Priority date (day/month/year) 11.03.2004		
International Patent Classification (IPC)	or both national classific	cation and IPC			
B62D1/10 Applicant					
Autoliv Development AB et al					
1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion					
3. For further details, see notes to Form					
Name and mailing address of the ISA/SI Patent - och registreringsverket		Authorized officer			
Box 5055 S-102 42 STOCKHOLM	-	Daniel Åber	g / JA A		
Facsimile No. +46 8 667 72 88		Telephone No. +46	8 782 25 00		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SE2005/000264

Bo	x No. I	Basis of this opinion
1.	which it	ard to the language, this opinion has been established on the basis of the international application in the language in was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language, , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	a. type o	ard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the invention, this opinion has been established on the basis of: of material a sequence listing table(s) related to the sequence listing of material in written format
	c. time c	in computer readable form of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addition	al comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/SE2005/000264

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

MEG
_ YES
_ NO
YES
_ NO
_ YES
_NO

2. Citations and explanations:

Cited documents

D1: EP 0414245 A1 D2: US 3127784 A

The invention concerns a gear arrangement for a steering wheel with a stationary housing. It solves the problem of backlash in a gear arrangement of the steering wheel, which gives the steering wheel an undesirable feel. Hence, the object of the invention is to eliminate said backlash.

Document D1 is considered to represent the closest prior art. D1 describes (see abstract and fig. 2) a steering wheel arrangement comprising a first and second gear element mounted between the steering wheel and a steering column. The steering wheel arrangement (see fig. 2-4) is provided with an adjust ring (39) for "adjusting" or "managing" a backlash between a pinion gear and a ring gear (see column 7, line 2-line 26 and column 9, line 14-line 26). D1 does not state explicitly that the aim is to "eliminate" the backlash; however it is considered implicit in D1, since a backlash would clearly not be desirable in a steering wheel arrangement.

The invention according to claim 1 differs from the steering wheel in D1 in that the arrangement comprises at least one anti-backlash gear mounted on one of said gear elements.

Due to these features, a backlash-free gear arrangement is achieved.

. . . / . . .

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/SE2005/000264

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V

Consequently, with the background of D1, the problem is to design an alternative arrangement which achieves a backlash-free gear arrangement.

A solution to this problem is known from document D2, which describes an arrangement for eliminating backlash in gear trains (see column 1, line 12-line 29, column 2, line 4-line 53 and fig. 1-4).

It is therefore considered to be obvious for a person skilled in the art to use the teachings of D2 together with prior-art as specified in D1 in order to achieve a steering wheel arrangement according to the claimed invention. Accordingly, the steering wheel arrangement as claimed in claim 1 lacks an inventive step.

The remaining claims 2-8 are considered to involve particular detail executions obvious to a person skilled in the art. Therefore, the invention according to these claims is not considered to involve an inventive step.